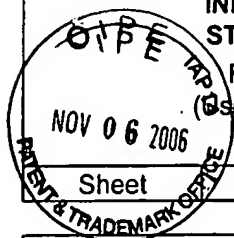
 INFORMATION DISCLOSURE STATEMENT BY APPLICANT Form PTO-1449 (Modified) Use several sheets if necessary				COMPLETE IF KNOWN	
				Application Number	10/666,848
				Confirmation Number	5768
				Filing Date	September 17, 2003
				First Named Inventor	Alan Thomson
				Group Art Unit	1746
				Examiner Name	Not Assigned
Sheet	1	of	1	Attorney Docket No.	43390-8002.US01

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
KK	1.	11/326.966		Taylor	01/05/06	
	2.	11/330.877		Matta	01/11/06	
	3.	11/331.789		Matta, et al.	01/14/06	
	4.	11/351.104		Tiwari	02/08/06	
	5.	11/377.859		Harkins	03/15/06	
	6.	11/400.165		Tiwari	04/05/06	
	7.	11/445.750		Matta	05/03/06	
	8.	11/417.830		Morain	05/30/06	
	9.	11/417.993		Jar et al.	05/03/06	
	10.	11/437.537		Freund et al.	05/19/06	
	11.	11/437.538		Zeldin	05/19/06	
	12.	11/437.387		Zeldin et al.	05/19/06	
	13.	11/437.582		Bugwadia et al.	05/19/06	
	14.	11/451.704		Riley	06/12/06	
	15.	2004/0143428		Rappaport, et al.	03/13/03	
	16.	2005/0068925		Palm, et al.	09/12/03	
	17.	2005/0059406		Thomson, et al.	09/17/03	
	18.	2005/0059405		Thomson, et al.	09/17/03	
	19.	6,160,804		Ahmed, et al.	11/13/98	
	20.	6,208,629		Jaszewski, et al.	03/10/99	
	21.	6,240,078		Kuhnel, et al.	08/13/98	
	22.	6,256,300		Ahmed, et al.	04/11/00	
	23.	6,317,599		Rappaport, et al.	05/26/99	
	24.	6,347,091		Wallentin, et al.	11/06/98	
	25.	6,512,916		Forbes, Jr.	01/28/03	
	26.	6,631,267		Clarkson, et al.	11/4/99	
	27.	6,659,947		Carter, et al.	07/13/00	
	28.	6,747,961		Ahmed, et al.	04/11/00	
↓	29.	6,879,812		Agrawal, et al.	09/17/02	
KK	30.	6,973,622		Rappaport, et al.	09/25/00	

EXAMINER <div style="text-align: center;">/Kwasi Karikari/</div>	DATE CONSIDERED <div style="text-align: center;">02/19/2007</div>
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KK ↑	1.	2004/0259555		Rappaport, <i>et al.</i>	12/04	
	2.	2005/0073980		Thomson <i>et al.</i>	4/05	
	3.	2005/0180358		Kolar <i>et al.</i>	8/05	
	4.	3,641,433		Mifflin <i>et al.</i>	2/72	
	5.	4,168,400		De Couasnon <i>et al.</i>	9/79	
	6.	4,176,316		DeRoas <i>et al.</i>	11/79	
	7.	4,247,908		Lockart <i>et al.</i>	1/81	
	8.	4,291,401		Bachmann	9/81	
	9.	4,291,409		Weinberg <i>et al.</i>	9/81	
	10.	4,409,470		Shepard <i>et al.</i>	10/83	
	11.	4,460,120		Shepard <i>et al.</i>	7/84	
	12.	4,475,208		Ricketts	10/84	
	13.	4,494,238		Groth, Jr.	1/85	
	14.	4,500,987		Hasegawa	2/85	
	15.	4,503,533		Tobagi <i>et al.</i>	3/85	
	16.	4,550,414		Guinon <i>et al.</i>	10/85	
	17.	4,562,415		McBiles	12/85	
	18.	4,630,264		Wah	12/86	
	19.	4,635,221		Kerr	1/87	
	20.	4,639,914		Winters	1/87	
	21.	4,644,523		Horwitz	2/87	
	22.	4,672,658		Kavehrad	6/87	
	23.	4,673,805		Shepard <i>et al.</i>	6/87	
	24.	4,707,839		Andren <i>et al.</i>	11/87	
	25.	4,730,340		Frazier	3/88	
	26.	4,736,095		Shepard <i>et al.</i>	4/88	
	27.	4,740,792		Sagey <i>et al.</i>	4/88	
	28.	4,758,717		Shepard <i>et al.</i>	7/88	
	29.	4,760,586		Takeda	7/88	
	30.	4,789,983		Acampora <i>et al.</i>	12/88	
KK ↓						

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		NUMBER	Kind Code (if known)			
KK	31.	4,829,540		Waggener <i>et al.</i>	5/89	
↑	32.	4,850,009		Zook <i>et al.</i>	7/89	
	33.	4,872,182		Mcrae <i>et al.</i>	10/89	
	34.	4,894,842		Brockhaven <i>et al.</i>	1/90	
	35.	4,901,307		Gilhousen <i>et al.</i>	2/90	
	36.	4,933,952		Albriex <i>et al.</i>	6/90	
	37.	4,933,953		Yagi	6/90	
	38.	4,955,053		Simpson <i>et al.</i>	2/91	
	39.	5,008,899		Yamamoto	4/91	
	40.	5,029,183		Tymes	7/91	
	41.	5,103,459		Gilhousen <i>et al.</i>	4/92	
	42.	5,103,461		Tymes	4/92	
	43.	5,109,390		Gilhousen <i>et al.</i>	4/92	
	44.	5,142,550		Tymes	8/92	
	45.	5,151,919		Dent	9/92	
	46.	5,157,687		Tymes	10/92	
	47.	5,187,575		Dent <i>et al.</i>	2/93	
	48.	5,231,633		Hluchyj <i>et al.</i>	7/93	
	49.	5,280,498		Tymes <i>et al.</i>	1/94	
	50.	5,285,494		Sprecher <i>et al.</i>	2/94	
	51.	5,329,531		Diepstraten	7/94	
	52.	5,418,812		Reyes <i>et al.</i>	5/95	
	53.	5,479,441		Tymes <i>et al.</i>	12/95	
	54.	5,488,569		Huang <i>et al.</i>	9/95	
	55.	5,450,615		Fortune <i>et al.</i>	9/95	
	56.	5,465,401		Thompson	11/95	
	57.	5,479,441		Tymes <i>et al.</i>	12/95	
	58.	5,483,676		Mahany <i>et al.</i>	1/96	
	59.	5,491,644		Pickering <i>et al.</i>	2/96	
KK	60.	5,517,495		Lund	5/96	

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				Group Art Unit	1746
				Examiner Name	Not Assigned
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U.S. PATENT DOCUMENTS

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		NUMBER	Kind Code (if known)			
KK	61.	5,519,762		Bartlett	5/96	
↑	62.	5,528,621		Heiman <i>et al.</i>	6/96	
	63.	5,561,841		Markus	10/96	
	64.	5,568,513		Croft <i>et al.</i>	10/96	
	65.	5,598,532		Liron	1/97	
	66.	5,630,207		Gitlin <i>et al.</i>	5/97	
	67.	5,640,414		Blakeney <i>et al.</i>	6/97	
	68.	5,649,289		Wang <i>et al.</i>	7/97	
	69.	5,668,803		Tymes <i>et al.</i>	9/97	
	70.	5,793,303		Koga	8/98	
	71.	5,794,128		Brockel <i>et al.</i>	8/98	
	72.	5,812,589		Sealand <i>et al.</i>	9/98	
	73.	5,815,811		Pinard <i>et al.</i>	9/98	
	74.	5,828,960		Tang <i>et al.</i>	10/98	
	75.	5,584,048		Wieczorek	12/96	
	76.	5,844,900		Hong <i>et al.</i>	12/98	
	77.	5,875,179		Tikalsky	1/99	
	78.	5,896,561		Schrader <i>et al.</i>	4/99	
	79.	5,915,214		Reece <i>et al.</i>	6/99	
	80.	5,920,821		Seazholtz <i>et al.</i>	7/99	
	81.	5,933,607		Tate <i>et al.</i>	8/99	
	82.	5,949,988		Feisullin <i>et al.</i>	9/99	
	83.	5,953,669		Stratis <i>et al.</i>	9/99	
	84.	5,960,335		Umemoto <i>et al.</i>	9/99	
	85.	5,982,779		Krishnakumar <i>et al.</i>	11/99	
	86.	5,987,062		Engwer <i>et al.</i>	11/99	
	87.	5,987,328		Ephremides <i>et al.</i>	11/99	
	88.	6,005,853		Wang <i>et al.</i>	12/99	
	89.	6,011,784		Brown	1/00	
KK	90.	6,078,568		Wright	6/00	

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		NUMBER	Kind Code (if known)			
KK ↑	91.	6,088,591		Trompower	7/00	
	92.	6,119,009		Baranger <i>et al.</i>	9/00	
	93.	6,199,032	B1	Anderson	3/01	
	94.	6,208,841		Wallace <i>et al.</i>	3/01	
	95.	6,208,629		Jaszewski <i>et al.</i>	3/01	
	96.	6,218,930		Katzenberg <i>et al.</i>	4/01	
	97.	6,240,083		Wright	5/01	
	98.	6,256,334		Adachi	7/01	
	99.	6,285,662		Watannabe	9/01	
	100.	6,336,035		Somoza <i>et al.</i>	1/02	
	101.	6,356,758	B1	Almeida <i>et al.</i>	3/02	
	102.	6,393,290	B1	Ulfongene	5/02	
	103.	6,404,772	B1	Beach <i>et al.</i>	6/02	
	104.	6,473,449	B1	Cafarella <i>et al.</i>	10/02	
	105.	6,493,679	B1	Rappaport <i>et al.</i>	12/02	
	106.	6,496,290	B1	Lee	12/02	
	107.	6,580,700	B1	Pinard <i>et al.</i>	6/03	
*	108.	6,625,454	B1	Rappaport <i>et al.</i>	9/03	
	109.	6,659,947	B1	Carter <i>et al.</i>	12/03	
KK ↓	110.	6,687,498	B1	McKenna, <i>et al.</i>	2/04	

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Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				
KK	111.	PCT	WO94/03986		WIPO	2/94		
KK	112.	PCT	WO99/11003		WIPO	3/99		

EXAMINER <div style="text-align: center; font-weight: bold; font-size: 1.2em;">/Kwasi Karikari/</div>	DATE CONSIDERED <div style="text-align: center; font-weight: bold; font-size: 1.2em;">02/19/2007</div>
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OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.		T
KK ↑	113.	Acampora and Winters, IEEE Communications Magazine, 25(8):11-20 (1987).		
	114.	Acampora and Winters, IEEE Journal on selected Areas in Communications. SAC-5:796-804 (1987).		
	115.	Bing and Subramanian, IEEE, 1318-1322 (1997).		
	116.	Durgin, <i>et al.</i> , "Measurements and Models for Radio Path Loss and Penetration Loss in and Around Homes and Trees at 5.85 GHz", IEEE Transactions on Communications, vol. 46, No. 11, Nov. 1998.		
	117.	Freret <i>et al.</i> , Applications of Spread-Spectrum Radio to Wireless Terminal Communications", Conf. Record, Nat'l Telecom. Conf., Nov. 30- Dec. 4, 1980.		
	118.	Fortune <i>et al.</i> , IEEE Computational Science and Engineering, "Wise Design of Indoor Wireless Systems: Practical Computation and Optimization", pg. 58-68 (1995).		
	119.	Geier, Jim, Wireless Lans Implementing Interoperable Networks, Chapter 3 (pp. 89-125) Chapter 4 (pp. 129-157) Chapter 5 (pp. 159-189) and Chapter 6 (pp. 193-234), 1999, United States.		
	120.	Ho <i>et al.</i> , "Antenna Effects on Indoor Obstructed Wireless Channels and a Deterministic Image-Based Wide-Based Propagation Model for In-Building Personal Communications Systems", International Journal of Wireless Information Networks, vol. 1, No. 1, 1994.		
	121.	Kim <i>et al.</i> , "Radio Propagation Measurements and Prediction Using Three-Dimensional Ray Tracing in Urban Environments at 908 MHz and 1.9 GHz", IEEE Transactions on Vehicular Technology, vol. 48, No. 3, May 1999.		
	122.	Kleinrock and Scholl, Conference record 1977 ICC Volume 2 of 3, June 12-15 Chicago Illinois "Packet Switching in radio Channels: New Conflict-Free Multiple Access Schemes for a Small Number of data Useres", (1977).		
	123.	LAN/MAN Standars Committee of the IEEE Computer Society, Part 11:Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications:Higher Speed Physical Layer Extension in the 2.4 GHz Band, IEEE Std. 802.11b (1999).		
	124.	Okamoto and Xu, IEEE, Proceeding so of the 13th Annual Hawaii International Conference on System Sciences, pp. 54-63 (1997).		
	125.	Panjwani <i>et al.</i> , "Interactive Computation of Coverage Regions for Wireless Communication in Multifloored Indoor Environments", IEEE Journal on Selected Areas in Communications, vol. 14, No. 3, Apr. 1996.		
	126.	Perram and Martinez, "Technology Developments for Low-Cost Residential Alarm Systems", Proceedings 1977 Carnahan Conference on Crime Countermeasures", April 6-8, pp. 45-50 (1977).		
	KK ↓	127.	Piazzzi <i>et al.</i> , "Achievable Accuracy of Site-Specific Path-Loss Predictions in Residential Environments", IEEE Transactions on Vehicular Technology, vol. 48, No. 3, May 1999.	

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KK	128.	Seidel <i>et al.</i> , "Site-Specific Propagation Prediction for Wireless In-Building Personal Communications System Design", IEEE Transactions on Vehicular Technology, vol. 43, No. 4, Nov. 1994.	
KK	129.	Skidmore <i>et al.</i> , "Interactive Coverage Region and System Design Simulation for Wireless Communication Systems in Multi-floored Indoor Environments, SMT Plus" IEEE ICUPC '96 Proceedings (1996).	
KK	130.	Ullmo <i>et al.</i> , "Wireless Propagation in Buildings: A Statistic Scattering Approach", IEEE Transactions on Vehicular Technology, vol. 48, No. 3, May 1999.	

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